



# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/819,916	03/28/2001	Robert C. Sundahl	INTL-0392-US(P8834)	4365
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Timothy N. Trop			EXAMINER	
TROP, PRUNE	R & HU, P.C.		PHINNEY,	JASON R
8554 KATY FW	VΥ		ADM ADAM	D 4 DCD 3 H 13 4 DCD
HOUSTON, TX	77024-1805		ART UNIT	PAPER NUMBER
	•		2879	
			DATE MAILED: 09/23/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.  Office Action Summary
Examiner  Jason Phinney  2879  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edensions of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If the profice of reply specified above is lase than thirty (30) days, a reply within the statutor minimum of thirty (30) days.  If the profice of reply specified above is lase than thirty (30) days, a reply within the statutor minimum of thirty (30) days.  If the profice of reply specified above is lase than thirty (30) days, a reply within the statutor minimum of thirty (30) days will be considered linely.  If the profice reply specified above is lase than thirty (30) days, a reply within the statutor minimum of thirty (30) days will be considered linely.  If the profice of the statutor of thirty of the statutor minimum of thirty (30) days and the statutor minimum of thirty (30) days are statutor of the statutor minimum of thirty (30) days and the statutor minimum of thirty (30) days will be considered linely.  Responsive to reply within the set or extended period for reply will, by statutia, cause the application to become ABANDONED (35 U.S. C. § 133).  Responsive to communication(s) filed on 11 July 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C. D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1,3-6,9.10 and 17-20 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  Claim(s) 1,3-6,9.10 and 17-20 is/are rejected.  Claim(s) 1,3-6,9.10 and 17-20 is/are rejected.  Claim(s) 1,3-6,9.10 and 17-20 is/are rejected.  Claim(s) 1,3-6,9
Jason Phinney  Jason
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after Stk (6) MONTHS from the mailing date of this communication.  If the period for reply specified above, the maximum statutory period will apply and will expire 3K (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply vill, by statutory period will apply and will expire 3K (6) MONTHS from the mailing date of this communication.  Failure to reply within the set or extended period for reply vill, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than there months after the mailing date of this communication, even if timely filed, may reduce any samed patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 11 July 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1,3-6.9.10 and 17-20 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  6) Claim(s) 1,3-6.9.10 and 17-20 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on 28 March 2001 is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.
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13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>
Attachment(s)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

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#### **DETAILED ACTION**

### Response to Amendment

1. The Amendment, filed on 7/11/03, has been entered and acknowledged by the Examiner.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 17-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by U.S. Patent No. 6,097,455 to Babuka.

Regarding Claim 17, Babuka discloses a method of arranging an array of display elements (See Figure's 1 or 8, #'s 14a and 14b) to produce a flat panel display. Each display element has a front surface that emits light (Figure 1, #'s 14a and 14b top surface), a back surface that does not substantially emit light (Figure 1, #'s 14a and 14b bottom surface), a seam between adjacent display elements (see gap between panels 14a and 14b in Figure 1), and a strap secured to the back surface across seams between adjacent display elements (Figure 1, #21b). Babuka further discloses a front surface of the flat-panel display (Figure 1, #20) from which the stress would be redistributed to the straps.

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Regarding Claim 18, the straps of Babuka would function to redistribute a bending stress applied on the front surface toward the rear of the display as compression in the straps (Figure 1, #21b).

Regarding Claim 19, the straps of Babuka would function to redistribute a bending stress applied on the front surface toward the front of the display as tension in the straps (Figure 1, #21b).

Regarding Claim 20, Babuka discloses that the straps should be adhesively secured to the display in a grid pattern (In Figure 3 Babuka shows plural seams in a grid pattern and on Column 6, Lines 40-43 Babuka discloses that each of the seams is to have a strap (called a mask) both in front and behind the seam).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 5, 6, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,097,455 to Babuka in view of U.S. Patent No. 6,343,862 to Sawai.

Regarding Claim 1, Babuka discloses a flat panel display with a tiled array of display elements (See Figure's 1 or 8, #'s 14a and 14b). Each display element has a front surface that emits light (Figure 1, #'s 14a and 14b top surface), a back surface that does not substantially emit

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light (Figure 1, #'s 14a and 14b bottom surface), a seam between adjacent display elements (see gap between panels 14a and 14b in Figure 1), and a strap attached to the back surface along the seam length between display elements (Figure 1, #21b). Babuka fails to exemplify that there should be an optical integrator attached to the front surface of the display wherein the straps would redistribute the stress from the optical integrator to the straps.

Regarding Claim 3, Babuka discloses that the straps should be perpendicular to each other (In Figure 3 Babuka shows plural perpendicular seams and on Column 6, Lines 40-43 Babuka discloses that each of the seams is to have a strap (called a mask) both in front and behind the seam).

Regarding Claim 5, Babuka discloses that the perpendicular straps (Mask) are attached to the frame (called a Back plate; see Column 3, Lines 41-43).

Regarding Claim 6, Babuka further discloses a frame (Called a Back plate see Column 3, Lines 41-43).

Regarding Claim 9, the straps of Babuka would serve to redistribute a bending stress applied on the panels toward the front of the display as tension in the straps (Figure 1, #21b).

Regarding Claim 10, the straps of Babuka would serve to redistribute bending stress applied on the panels toward the rear of the display as compression in the straps (Figure 1, #21b).

Sawai, in the similar field of LCD displays teaches of using an optical integrator (Column 2, Lines 6-11) in order to make the light distribution more uniform. Were this integrator applied to the front panel of Babuka's display then the straps would function to redistribute the stress from the display to the straps.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the display panel of Babuka with the optical integrator of Sawai in order to create a display with a more uniform light distribution.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,097,455 to Babuka in view of U.S. Patent No. 6,343,862 to Sawai and further in view of U.S. Patent No. 6,498,592 to Matthies.

Babuka in view of Sawai teaches the flat panel display of Claims 1 and 3 as described above.

Babuka in view of Sawai fails to exemplify that the perpendicular straps should be connected to one another.

Matthies, in the similar field of tiled displays teaches of using perpendicular straps (Figure 13A, #2010) that are connected to one another in order to prevent the straps from moving out of place.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to attach the perpendicular straps of Babuka as taught by Matthies in order to prevent the straps from moving.

Response to Arguments

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7. Applicant's arguments filed 7/11/03 have been fully considered but they are not persuasive.

In response to the Applicant's contention that Babuka does not teach or suggest fastening straps to the back surfaces of the adjacent display elements because there is a polymer film layer located therebetween, the Examiner respectfully disagrees. Babuka (Column 3, Lines 41-43) states that the polymer film layer is an adhesive and therefore is merely the means for attaching the straps to the back surfaces of the adjacent display elements.

#### Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Phinney whose telephone number is (703) 305-3999. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703) 305-4794. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

TP (

ASHOK PATEL PRIMARY EXAMINED